## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hugh R. Sharkey et al.

Art Unit : Unknown

Serial No.:

Examiner: Unknown

Filed

Title

: SURGICAL INSTRUMENT WITH OFF-AXIS ELECTRODE

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

Under 35 USC §120, this application relies on the earlier filing date of application serial number 09/753,786, filed on January 2, 2001, and the references listed on the accompanying Forms PTO-1449 were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application.

This statement is being filed with the application.

Respectfully submitted,

Fish & Richardson P.C.

1425 K Street, N.W.

11th Floor

Washington, DC 20005-3500 Telephone: (202) 783-5070

Facsimile: (202) 783-2331

40165450.doc

s histal Phyllis K. Kristal

Reg. No. 38,524

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14170-044002	Application No. To be assigned
by Ap	closur Statement oplicant	Applicant Hugh R. Sharkey et	al.
(Use several sh	neets if necessary)	Filing Date July 23, 2003	Group Art Unit To be assigned

			U.S. Pate	ent Documents		<u> </u>	
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
_	AA	US-379350	4-2002	Sharkey et al.			
	AB	4,074,718	02/1978	Morrison, Jr.			
	AC	5,464,023	11/1995	Viera			
	AD	5,897,553	04/27/99	Mulier et al.			
	AE	6,113,591	09/05/00	Whayne et al.			
	AF	6,277,112	08/21/01	Underwood et al.	,		
	AG						
	AH						
	AI						
1	AJ						
	AK					100	

	Foreign	n Patent Doc	uments or P	ublished Foreign F	atent A	Application	าร	
Examiner	Desig.	Document	Publication	Country or			Trans	lation
Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No
	AL						70 1	
,	AM		, ,					
	AN					<del></del>		
	AO							
	AP							

•	Other Do	ocuments (include Author, Title, Date, and Place of Publication)
Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if no next communication to applicant.	it in conformance and not considered. Include copy of this form with

					- 51	ILLI E. OF E.
INFORM	NATION DISCLOS	SURE	ATTY. DOCKET NO.		SERIAL NO.	
	PTO-1449	•	APPLICANT Sharkey et al.			,
		4	FILING DATE		GROUP To be	assigned
		U.S	S. PATENT DOCUMENTS		`	
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,487,757	1/30/96	Truckai et al.	607	122	
	5,500,012	3/19/96	Brucker et al.	607	122	
	5,599,356	4/4/97	Edwards et al.	606	41	
	5,267,994	12/7/93	Gentelia et al.	606	15	
	5,423,806	6/13/95	Dale et al.	606	15	
	4,601,705	7/22/86	McCoy	604	94	
	5,242,439	9/93	Larsen et al.	606	15	
	5,437,661	8/95	Rieser	606	15	
					j .	
	r					
-		FORE	IGN PATENT DOCUMENTS			
EXAMINER'S	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
INITIALS						YES NO
	OTHER DO	CUMENTS (I	ncluding Author, Title, Date, Pe	rtinent Pag	es, Etc.)	
	Auhll, Richard A October 11, 1990		the Resectoscope in Gynecology.	' Biomedical	Business Intern	ational,
		<del> </del>			<del></del>	<del></del>
						<del></del>
EXAMINER		<del> </del>	DATE CONSIDERED	<del>- , - , </del>		<del> </del>

SHEET OF 18

INFORM	IATION DISCLOS CITATION	SURE	ATTY. DOCKET NO.		SERIAL NO.	
PTO-1449			APPLICANT Hugh R. Sharkey et al.			l
•			FILING DATE		GROUP To be	assigned
1		U.	S. PATENT DOCUMENTS			
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,697,909	12/16/97	Eggers, et al.	604	114	5/10/94
1 ,	5,683,366	11/4/97	Eggers, et al.	604	114	11/22/95
·	5,681,282	10/28/97	Eggers, et al.	604	114	4/11/95
	5,308,311	5/3/94	Eggers, et al.	606	28	5/1/92
	5,009,656	4/23/91	Reimels	606	48	8/17/89
	4,476,862	10/16/84	Pao	128	303.17	9/30/82
,	5,524,338	6/11/96	Martyniuk, et al.	29	825	12/22/94
	4,907,589	3/13/90	Cosman	606	34	4/29/88
	5,630,839	5/20/97	Corbett, III, et al.	607	137	8/18/95
		FORE	EIGN PATENT DOCUMENTS	·		
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	WO 98/07468	26.02.98	PCT	A61N	1/40	
	WO 96/39914	19.12.96	PCT	A61B	1/00	
	OTHER DO	CUMENTS (1	Including Author, Title, Date, F	ertinent Pag	es, Etc.)	1
	Cosset, J.M., Res Hyperthermia, 12		quency (Low Frequency) Intersti	tial Heating (	RF Technique),	Interstitial
	Ellman Internation	onal Mfg., Inc.,	1989, Catalog, pp. 1-15, 20	1		- <u> </u>
	Attachment I: C	ompetetive Lite	erature on Generators with Bipola	ar Capabilitie:	s, IME Co., Ltd.	pp. 60-86
	Attachment II: C	ompetetive Lite	erature on Bipolar Forceps and F	ootswitch Co	ntrols, IME Co.,	Ltd. pp. 87-10
•						
EXAMINER	<del>*                                    </del>		DATE CONSIDERED	<del></del>		

SHEET 3 OF 18

### APPLICANT   Sharkey et al.	INFORM	NATION DISCLOS	SURE	ATTY. DOCKET NO.		SERIAL NO.	1EET 3 OF 18
U.S. PATENT DOCUMENTS   To be assigned		PTO-1449					
EXAMINER'S   PATENT NO.   DATE   NAME   CLASS   SUBCLASS   FILING DATE				FILING DATE	· · · · · · · · · · · · · · · · · · ·		assigned
INITIALS			U.S	. PATENT DOCUMENTS	·		
3,579,643   5-25-71   Morgan   3   1   12-12-68	III	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	
3,776,230   12-4-73   Neefe   128   260   4-18-73		3,178,728	4-20-65	Christensen	3	1	10-22-62
3,867,728   2-25-75   Substad et al.   3   1   4-5-73		3,579,643	5-25-71	Morgan	3	1	12-12-68
3,879,767		3,776,230	12-4-73	Neefe	128	260	4-18-73
3,886,600 6-3-75 Kahn et al. 3 1 9-26-73 3,938,198 2-17-76 Kahn et al. 3 1.912 9-27-73 3,987,499 10-26-76 Scharbach et al. 3 1.91 8-9-74 3,992,725 11-23-76 Homsy 3 1 10-17-74 4,043,342 8-23-77 Morrison, Jr. 128 303.14 2-26-76 4,085,466 4-25-78 Goodfellow et al. 3 1.91 8-4-77  FOREIGN PATENT DOCUMENTS  EXAMINER'S INITIALS PATENT NO. DATE COUNTRY CLASS SUBCLASS TRANSLATION YES NO 637118 15/12/78 U.S.S.R. A61B 17/18 XX 1 340 451 12/12/73 Great Britain A61F 1/00 1,122,634 11/09/56 France A61F 19/0 XX 0 479 482 B1 01/05/96 Europe A61B 17/39 0 479 482 B1 01/05/96 Europe A61B 17/39 0 542 412 A1 19/05/93 Europe A61B 17/39  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Christian, C. et al., "Allograft Anterior Cruciate Ligament Reconstruction with Patellar Tendon: An Endoscopic Technique", Operative Techniques in Sports Medicine, Vol. 1, No. 1, Jan. 1993, pp. 50-57.		3,867,728	2-25-75	Substad et al.	3	1	4-5-73
3,938,198   2-17-76   Kahn et al.   3   1.912   9-27-73     3,987,499   10-26-76   Scharbach et al.   3   1.91   8-9-74     3,992,725   11-23-76   Homsy   3   1   10-17-74     4,043,342   8-23-77   Morrison, Jr.   128   303.14   2-26-76     4,085,466   4-25-78   Goodfellow et al.   3   1.91   8-4-77     FOREIGN PATENT DOCUMENTS    EXAMINER'S INITIALS   PATENT NO.   DATE   COUNTRY   CLASS   SUBCLASS   TRANSLATION     YES   NO     637118   15/12/78   U.S.S.R.   A61B   17/18   XX     1 340 451   12/12/73   Great Britain   A61F   1/00     1,122,634   11/09/56   France   A61F   19/0   XX     0 479 482 A1   08/04/92   Europe   A61B   17/39     0 479 482 B1   01/05/96   Europe   A61B   17/39     0 542 412 A1   19/05/93   Europe   A61B   17/39     OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)   Christian, C. et al., "Allograft Anterior Cruciate Ligament Reconstruction with Patellar Tendon: An Endoscopic Technique", Operative Techniques in Sports Medicine, Vol. 1, No. 1, Jan. 1993, pp. 50-57.		3,879,767	4-29-75	Substad	3	1	2-11-74
3,987,499   10-26-76   Scharbach et al.   3   1.91   8-9-74     3,992,725   11-23-76   Homsy   3   1   10-17-74     4,043,342   8-23-77   Morrison, Jr.   128   303.14   2-26-76     4,085,466   4-25-78   Goodfellow et al.   3   1.91   8-4-77     FOREIGN PATENT DOCUMENTS    EXAMINER'S INITIALS   PATENT NO.   DATE   COUNTRY   CLASS   SUBCLASS   TRANSLATION     YES   NO     637118   15/12/78   U.S.S.R.   A61B   17/18   XX     1 340 451   12/12/73   Great Britain   A61F   1/00     1,122,634   11/09/56   France   A61B   17/39     0 479 482 A1   08/04/92   Europe   A61B   17/39     0 479 482 B1   01/05/96   Europe   A61B   17/39     0 542 412 A1   19/05/93   Europe   A61B   17/39     OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)   Christian, C. et al., "Allograft Anterior Cruciate Ligament Reconstruction with Patellar Tendon: An Endoscopic Technique", Operative Techniques in Sports Medicine, Vol. 1, No. 1, Jan. 1993, pp. 50-57.		3,886,600	6-3-75	Kahn et al.	3	1	9-26-73
3,992,725   11-23-76   Homsy   3   1   10-17-74		3,938,198	2-17-76	Kahn et al.	3	1.912	9-27-73
4,043,342   8-23-77   Morrison, Jr.   128   303.14   2-26-76     4,085,466   4-25-78   Goodfellow et al.   3   1.91   8-4-77     FOREIGN PATENT DOCUMENTS    EXAMINER'S INITIALS   PATENT NO.   DATE   COUNTRY   CLASS   SUBCLASS   TRANSLATION   YES   NO		3,987,499	10-26-76	Scharbach et al.	3	1.91	8-9-74
A,085,466		3,992,725	11-23-76	Homsy	3	1	10-17-74
EXAMINER'S   PATENT NO.   DATE   COUNTRY   CLASS   SUBCLASS   TRANSLATION   YES   NO		4,043,342	8-23-77	Morrison, Jr.	128	303.14	2-26-76
EXAMINER'S   PATENT NO.   DATE   COUNTRY   CLASS   SUBCLASS   TRANSLATION   YES   NO		4,085,466	4-25-78	Goodfellow et al.	3	1.91	8-4-77
INITIALS		**************************************	FORE	IGN PATENT DOCUMENTS			
1 340 451   12/12/73   Great Britain   A61F   1/00     1,122,634   11/09/56   France   A61F   19/0   XX     0 479 482 A1   08/04/92   Europe   A61B   17/39     0 479 482 B1   01/05/96   Europe   A61B   17/39     0 542 412 A1   19/05/93   Europe   A61B   17/39     OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)   Christian, C. et al., "Allograft Anterior Cruciate Ligament Reconstruction with Patellar Tendon: An Endoscopic Technique", Operative Techniques in Sports Medicine, Vol. 1, No. 1, Jan. 1993, pp. 50-57.	11	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	
1,122,634 11/09/56 France A61F 19/0 XX 0 479 482 A1 08/04/92 Europe A61B 17/39 0 479 482 B1 01/05/96 Europe A61B 17/39 0 542 412 A1 19/05/93 Europe A61B 17/39  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  Christian, C. et al., "Allograft Anterior Cruciate Ligament Reconstruction with Patellar Tendon: An Endoscopic Technique", Operative Techniques in Sports Medicine, Vol. 1, No. 1, Jan. 1993, pp. 50-57.		637118	15/12/78	U.S.S.R.	A61B	17/18	XX
0 479 482 A1 08/04/92 Europe A61B 17/39 0 479 482 B1 01/05/96 Europe A61B 17/39 0 542 412 A1 19/05/93 Europe A61B 17/39  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  Christian, C. et al., "Allograft Anterior Cruciate Ligament Reconstruction with Patellar Tendon: An Endoscopic Technique", Operative Techniques in Sports Medicine, Vol. 1, No. 1, Jan. 1993, pp. 50-57.		1 340 451	12/12/73	Great Britain	A61F	1/00	
0 479 482 B1 01/05/96 Europe A61B 17/39 0 542 412 A1 19/05/93 Europe A61B 17/39  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  Christian, C. et al., "Allograft Anterior Cruciate Ligament Reconstruction with Patellar Tendon: An Endoscopic Technique", Operative Techniques in Sports Medicine, Vol. 1, No. 1, Jan. 1993, pp. 50-57.		1,122,634	11/09/56	France	A61F	19/0	XX
O 542 412 A1 19/05/93 Europe A61B 17/39  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  Christian, C. et al., "Allograft Anterior Cruciate Ligament Reconstruction with Patellar Tendon: An Endoscopic Technique", Operative Techniques in Sports Medicine, Vol. 1, No. 1, Jan. 1993, pp. 50-57.		0 479 482 A1	08/04/92	Europe	A61B	17/39	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  Christian, C. et al., "Allograft Anterior Cruciate Ligament Reconstruction with Patellar Tendon: An Endoscopic Technique", Operative Techniques in Sports Medicine, Vol. 1, No. 1, Jan. 1993, pp. 50-57.		0 479 482 B1	01/05/96	Europe	A61B	17/39	
Christian, C. et al., "Allograft Anterior Cruciate Ligament Reconstruction with Patellar Tendon: An Endoscopic Technique", Operative Techniques in Sports Medicine, Vol. 1, No. 1, Jan. 1993, pp. 50-57.		0 542 412 A1	19/05/93	Europe	A61B	17/39	
Endoscopic Technique", Operative Techniques in Sports Medicine, Vol. 1, No. 1, Jan. 1993, pp. 50-57.		OTHER DO	CUMENTS (II	ncluding Author, Title, Date, Pe	rtinent Pag	es, Etc.)	
TT . T . 1 HD		Christian, C. et al., "Allograft Anterior Cruciate Ligament Reconstruction with Patellar Tendon: An					
Houpt, J. et al., "Experimental Study of Temperature Distributions and Thermal Transport During Radiofrequency Current Therapy of the Intervertebral Disc", SPINE, Vol. 21, No. 15, (1996), pp. 1808-13.							
Troussier, B. et al., "Percutaneous Intradiscal Radio-Frequency Thermocoagulation: A Cadaveric Study", SPINE, Vol. 20, No. 15, (Aug. 1995), pp. 1713-18.					iermocoagul	ation: A Cadave	eric Study",
EXAMINER DATE CONSIDERED	EXAMINER			DATE CONSIDERED			-

		·		· 1	SI	IEET <u>¥</u> OF <u>18</u>
INFORM	MATION DISCLOS CITATION	SURE	ATTY. DOCKET NO.		SERIAL NO.	
	PTO-1449		APPLICANT Sharkey et al.			
			FILING DATE		GROUP To be	assigned
		U.	S. PATENT DOCUMENTS			*
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4,129,470	12-12-78	Homsy	156	155	6-7-76
	4,224,696	9-30-80	Murray et al.	3	1.911	9-8-78
	4,224,697	9-30-80	Миттау et al.	3	1.911	9-8-78
	4,326,529	4-27-82	Doss et al.	128	303.1	12-5-79
	4,344,193	8-17-82	Kenny	3	1.911	11-28-80
	4,362,160	12-7-82	Hiltebrandt	128	303.15	7-17-80
	4,375,220	3-1-83	Matvias	128	804	5-9-80
	4,381,007	4-26-83	Doss	128	303.1	4-30-81
	4,397,314	8-9-83	Vaguine	128	399	8-3-81
	4,483,338	11-20-84	Bloom et al.	128	303.13	6-12-81
	4,517,965	5-21-85	Ellison	128	20	6-27-83,
•	4,517,975	5-21-85	Garito et al.	128	303.13	6-6-83
_	4,593,691	6-10-86	Lindstrom et al.	128	303.14	7-13-83
· .	4,597,379	7-1-86	Kihn et al.	128	1 R	3-30-83
		FORE	IGN PATENT DOCUMENTS			
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	0 572 131 A1	01/12/93	Europe	A61B	17/39	
	WO 85/02762	04/07/85	PCT	A61B	17/36	XX
	WO 93/01774	04/02/93	PCT	A61F	7/12	XX
	WO 95/20360	03/08/95	PCT	A61B	17/39	
	WO 95/30373	16/11/95	PCT	A61B	17/00	
	OTHER DO	CUMENTS (1	ncluding Author, Title, Date, I	ertinent Pag	es, Etc.)	
EXAMINER			DATE CONSIDERED			

INFORM	ATION DISCLOS	SURE	ATTY. DOCKET NO.		SERIAL NO.	IEET <u>5</u> OF <u>18</u>
	CITATION			<u> </u>		
	PTO-1449	•	APPLICANT Sharkey et al.			1
			FILING DATE		GROUP To be a	ssigned
1		U.	S. PATENT DOCUMENTS	•		
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
4.1 T 1	4,811,733	3-14-89	Borsanyi et al.	128	303.14	12-29-86
1	4,873,976	10-17-89	Schreiber	128	334 R	2-28-84
	4,894,063	1-16-90	Nashef	623	13	5-24-83
1	4,895,148	1-23-90	Bays et al.	606	213	3-22-89
	4,907,585	3-13-90	Schachar	606	28	12-3-87
	4,924,865	5-15-90	Bays et al.	606	77	5-16-88
1	4,944,727	7-31-90	МсСоу	604	95	10-2-87
	4,950,234	8-21-90	Fujioka et al.	604	60	5-25-88
	4,966,597	10-30-90	Cosman	606	50	11-4-88
	4,976,709	12-11-90	Sand	606	5	6-30-89
	4,976,715	12-11-90	Bays et al.	606	77	1-30-90
	4,998,933	3-12-91	Eggers et al.	606	41	6-10-88
•	5,007,908	4-16-91	Rydell	606	47	9-29-89
	5,100,402	3-31-92	Fan	606	41	10-5-90
	5,103,804	4-14-92	Abele et al.	128	4	7-3-90
*	5,178,620	1-12-93	Eggers et al.	606	41	2-22-91
		FORE	IGN PATENT DOCUMENT	S		
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	YES NO
<del></del>						
	OTHER DO	CUMENTS (I	including Author, Title, Date,	Pertinent Pag	es, Etc.)	<del> </del>
EXAMINER		· · · · · · · · · · · · · · · · · · ·	DATE CONSIDERED			

INFORM	MATION DISCLOS CITATION	SURE	ATTY. DOCKET NO.	i	SERIAL NO.	
	PTO-1449		APPLICANT Sharkey et al.			e e
	<u> </u>		FILING DATE		GROUP To be	assigned
· · · · · · · · · · · · · · · · · · ·		U.S	S. PATENT DOCUMENTS			*
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,191,883	3-9-93	Lennox et al.	128	401	5-22-90
	5,201,729	4-13-93	Hertzmann et al.	606	2	11-30-90
	5,201,730	4-13-93	Easley et al.	606	4	1-3-92
	5,213,097	5-25-93	Zeindler	128	401	7-13-92
	5,230,334	7-27-93	Klopotek	128	399	1-22-92
	5,242,441	9-7-93	Avitall	606	41	2-24-92
	5,261,906	11-16-93	Pennino et al.	606	46_	12-9-91
	5,275,151	1-4-94	Shockey et al.	128	4	12-11-91
	5,284,479	2-8-94	de Jong	604	60	7-13-92
	5,304,169	4-19-94	Sand	606	5_	8-17-92
	5,311,858	5-17-94	Adair	128	4_	6-15-92
	5,320,115	6-14-94	Kenna	128	898	1-16-91
· · · · · · · · · · · · · · · · · · ·	5,323,778	6-28-94	Kandarpa et al.	128	653.2	11-5-91
	5,334,193	8-2-94	Nardélla	606	41	11-13-92
	5,348,554	9-20-94	Imran et al.	606	41	12-1-92
•	5,366,443	11-22-94	Eggers et al.	604	114	10-9-92
	5,433,739	7-18-95	Sluijter et al.	607	99	11-2-93
	5,458,596	10-17-95	Lax et al.	606	31	5-6-94
		FORE	IGN PATENT DOCUMENTS			
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	YES NO
	OTHER DO	CUMENTS (I	ncluding Author, Title, Date, Po	ertinent Pag	es, Etc.)	
		. · · · · · · · · · · · · · · · · · · ·				
EXAMINER	e e e e e e e e e e e e e e e e e e e		DATE CONSIDERED			

<del></del>			<del></del>	<del>, ,</del>	SH	IEET <b>7</b> OF 18
INFORM	AATION DISCLOS CITATION	SURE	ATTY. DOCKET NO.		SERIAL NO.	1
e jed	PTO-1449	•	APPLICANT Sharkey et al.	· · · · · · · · · · · · · · · · · · ·		
			FILING DATE		GROUP To be	assigned
i		U.\$	S. PATENT DOCUMENTS			
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
1	5,465,737	11-14-95	Schachar	128	898	1-30-95
	5,484,403	1-16-96	Yoakum et al.	604	59	4-5-94
	5,484,432	1-16-96	Sand	606	5	4-14-94
	5,484,435	1-16-96	Fleenor et al.	606	46	11-8-93
	5,507,812	4-16-96	Moore	623	13	4-26-94
	5,514,130	5-7-96	Baker	606	41	10-11-94
. i	5,542,920	8-6-96	Cherif Cheikh	604	57	9-12-94
· · · · · · · · · · · · · · · · · · ·	5,569,242	10-29-96	Lax et al.	606	42	2-16-95
•	2,090,923	8-24-37	Wappler	128	303.15	7-12-35
	3,856,015	12-24-74	Íglesias	128	303.15	6-8-73
	3,945,375	3-23-76	Banko	128	6	4-30-73
· · · · · · · · · · · · · · · · · · ·	4,134,406	1-16-79	Iglesias	128	303.15	10-7-77
	4,590,934	5-27-86	Malis et al.	128	303.14	5-18-83
	4,651,734	3-24-87	Doss et al.	128	303.14	2-8-85
· ·	4,815,462	3-28-89	Clark	. 128	305	4-6-87
	4,838,859	6-13-89	Strassmann	604	95	5-19-87
	4,955,882	9-11-90	Hakky	606	14	3-30-88
<del></del>	<u> </u>	FORE	IGN PATENT DOCUMENT	<u>s</u>		· .
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	YES NO
<del></del>						
	OTHER DO	OCUMENTS (I	ncluding Author, Title, Date,	Pertinent Pag	es, Etc.)	
EXAMINER			DATE CONSIDERED			w

INFORM	MATION DISCLOS CITATION	SURE	ATTY. DOCKET NO.	1	SERIAL NO.	
	PTO-1449		APPLICANT Sharkey et al.			
	3		FILING DATE		GROUP To be assigned	
		U.S	S. PATENT DOCUMENTS			
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,085,657	2-4-92	Ben-Simhon	606	42	10-9-90
	5,098,430	3-24-92	Fleenor	606	42	3-16-90
	5,186,181	2-16-93	Franconi et al.	128	804	7-27-90
	5,192,267	3-9-93	Shapira et al.	604	22	3-28-91
	5,342,357	8-30-94	Nardella	606	40	11-13-92
	5,352,868	10-4-94	Denen et al.	219	501	5-1-92
	5,354,331	10-11-94	Schachar	623	4	7-15-92
· · · · · · · · · · · · · · · · · · ·	5,364,395	11-15-94	West, Jr.	606	46	5-14-93
		FORE	CIGN PATENT DOCUMENTS			
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	WO 92/10142	25/06/92	PCT	A61B	17/36	
	WO 93/20984	28/10/93	PCT	B26D	1/11	1
	WO 95/01814	19/01/95	PCT	A61N	5/02	
	WO 95/13113	18/05/95	PCT	A61N	5/02	
	WO 95/18575	13/07/95	PCT	A61B	17/39	
	OTHER DO	CUMENTS (I	ncluding Author, Title, Date, Pe	rtinent Pag	es, Etc.)	
	Beadling, L., "Bi 17, No. 1, Januar		orgical devices: Sculpting the futures.	re of arthroso	copy", Orthoped	ics today, Vol.
					<del> </del>	
		* * * * * * * * * * * * * * * * * * * *				
		_		·		
EXAMINER	·		DATE CONSIDERED		<del> </del>	

<u> </u>		<del></del>	1		SI	HEET 9 OF 1	
INFORM	MATION DISCLOS CITATION	SURE	ATTY. DOCKET NO.		SERIAL NO.	· ·	
	PTO-1449	•	APPLICANT Sharkey et al.				
			FILING DATE		GROUP To be	e assigned	
	•	U.S	S. PATENT DOCUMENTS				
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
*	5,366,490	11-22-94	Edwards et al.	607	99	12-22-93	
1	5,382,247	1-17-95	Cimino et al.	606	33	1-21-94	
	5,397,304	3-14-95	Truckai	604	95	6-29-93	
	5,401,272	3-28-95	Perkins	606	15	2-16-94	
	5,415,633	5-16-95	Lazarus et al.	604	95	7-28-93	
· · · · · · · · · · · · · · · · · · ·	5,437,662	8-1-95	Nardella	606	40	2-17-94	
	5,451,223	9-19-95	Ben-Simhon	606	42	7-26-94	
1	5,688,270	11-18-97	Yates et al.	606	51	1-18-95	
		,					
					telesmo.		
		FORE	IGN PATENT DOCUMENTS				
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	WO 97/06855	27/02/97	PCT	A61N	1/40		
	0 257 116 A1	02/03/88	Europe	A61N	1/36		
	0 274 705 A1	20/07/88	Europe	A61M	23/00	xx	
	0 521 595 A2	07/01/93	Europe	A61M	25/01		
	OTHER DO	CUMENTS (I	ncluding Author, Title, Date, F	ertinent Pag	es, Etc.)		
-			·				
EXAMINER		·	DATE CONSIDERED				

INFORM	INFORMATION DISCLOSURE CITATION		ATTY. DOCKET NO.		SERIAL NO.	1EET 10 OF 18
	PTO-1449		APPLICANT Sharkey et al.			
			FILING DATE		GROUP  To be as	ssigned
		U.S	S. PATENT DOCUMENTS	<del> </del>		351q.1.c.u
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
		9 12 11				
-			F			
						•
¥.		FORE	IGN PATENT DOCUMENTS			
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	0 558 297 A2	01/09/93	Europe	A61M	25/00	
	0 566 450 A1	20/10/93	Europe	A61N	5/02	XX
	0 682 910 A1	22/11/95	Europe	A61B	1/00	xx
	0 729 730 A1	04/09/96	Europe	A61B	17/32	
	0 737 487 A2	16/10/96	Europe	A61M	25/01	
	0 783 903 A1	16/07/97	Europe	A61N	5/04	xx
	DE3511107A1	02/10/86	Germany	A61B	17/39	XX
	DE3632197A1	31/03/88	Germany	A61B	10/00	XX
	JP 5-42166	05/1993	Japan	A61B	17/39	XX
	2 164 473 A	19/03/86	Great Britain	A61B	17/36	10.1
<del></del>	. <del>1</del>		ncluding Author, Title, Date, Pe	rtinent Pag	es, Etc.)	
					<del>grin studiu sa basi.</del>	
						· ·
		<del></del>				
					· · · · · · · · · · · · · · · · · · ·	
					<del> </del>	
				• .		
EXAMINER	<del>-L</del>		DATE CONSIDERED			

SHEET 11 OF 18

	<del></del>				SI	HEET 11 OF 18	
INFORM	MATION DISCLOS CITATION	SURE	ATTY. DOCKET NO.		SERIAL NO.	1	
	PTO-1449		APPLICANT Hugh R. Sharkey et al.				
			FILING DATE		GROUP To b	e assigned	
<del></del>		U.S	S. PATENT DOCUMENTS	<del> </del>	<u> </u>	<del> </del>	
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	4,846,175	7/11/89	Frimberger	128	303.15		
	5,114,402	5/19/92	McCoy	604	95		
	5,152,748	10/06/92	Chastagner	604	95		
	5,279,559	1/18/94	Barr	604	95		
	5,415,633	5/16/95	Lazarus et al.	604	95		
	5,433,739	7/18/95	Sluijter et al.	607	99		
		FORE	IGN PATENT DOCUMENTS				
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	WO 92/05828	4/16/92	PCT	A61M	25/00		
	WO 96/32885	10/24/96	PCT	A61B	5/04		
	WO 96/34559	11/07/96	PCT	A61B	5/0402		
	WO 98/17190	4/30/98	PCT	A61B	18/00	1	
	0 682 910 A1	11/22/95	Europe	A61B	1/00		
	0 737 487 A2	10/16/96	Europe	A61M	25/01		
			• !				
				•			
	OTHER DO	CUMENTS (I	ncluding Author, Title, Date, Pe	rtinent Page	es, Etc.)		
		******					
		· · · · · · · · · · · · · · · · · · ·					
				<del> </del>	era		
	-					·	
				<del></del>			
		-		<del></del>			
EXAMINER	······································		DATE CONSIDERED	·		•	

					3H1	ET 12 OF 18	
INFORM	IATION DISCLOS CITATION	SURE	ATTY. DOCKET NO.		SERIAL NO.		
	PTO-1449		APPLICANT Sharkey et al.				
			FILING DATE	GROUP To be	assigned		
<u>.</u>		U.S	. PATENT DOCUMENTS	· · · · · · · · · · · · · · · · · · ·			
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	5,201,731	4/13/93	Hakky	606	15		
	5,498,258	3/12/96	Hakky et al.	606	15	-	
	5,527,331	6/18/96	Kresch et al.	606	170		
1	5,718,702	2/17/98	Edwards	606	41		
	5,728,795	7/21/98	Bays	606	22		
	5,810,809	8/22/98	Rydell	606	49		
					_		
						-	
		FORE	IGN PATENT DOCUMENTS				
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
<u> </u>							
		*					
	OTHER DO	CUMENTS (I	cluding Author, Title, Date, F	Pertinent Pag	es. Etc.)	•	
				· · ·		· · · · · · · · · · · · · · · · · · ·	
				<del> </del>		1	
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	<del></del>		
			<del>la de la composición de la co</del>	<del></del>			
EXAMINER			DATE CONSIDERED				

					SHI	ET 13 OF 18	
INFORM	IATION DISCLOS	SURE	ATTY. DOCKET NO.		SERIAL NO.		
	PTO-1449		APPLICANT Hugh R. Sharkey et al.				
		*	FILING DATE		GROUP To be	assigned	
		U.S	. PATENT DOCUMENTS				
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	5,364,395	11/15/94	West, Jr.				
						, ,	
		•		i		,	
	, Y						
		,					
· · · · · · · · · · · · · · · · · · ·	<u> </u>	FORE	IGN PATENT DOCUMENTS	<del> </del>	<del>]</del>		
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	WO 82/02488	8/05/82	PCT	A61B	17/39		
	WO 93/16648	9/02/93	PCT	A61B	17/32		
<del></del>	WO 95/10981	4/27/95	PCT	A61B	8/12	6.	
	WO 95/25471	9/28/95	PCT	A61B	17/39	1	
	WO 96/11638	4/25/96	PCT	A61B	17/32		
	2 645 008	10/05/90	France	A61B	17/32		
	DE 39 18316	3/22/90	Germany	A61B	17/39	7.7	
	•						
	OTHER DO	CUMENTS (Ir	ncluding Author, Title, Date, P	ertinent Pa	ges, Etc.)		
<del> </del>		· · · · · · · · · · · · · · · · · · ·				•	
		•					
				· · · · · · · · · · · · · · · · · · ·			
· · · ·			<del></del>			<del></del>	
			•			· · · · · · · · · · · · · · · · · · ·	
				· · · · · · · · · · · · · · · · · · ·			
EYAMINED	1		DATE CONSIDERED				
EXAMINER			DATE CONSIDERED	•			

INFORM	ATION DISCLOS CITATION	URE	ATTY. DOCKET NO.		SERIAL NO.		
	PTO-1449		APPLICANT Sharkey et al.				
			FILING DATE		GROUP To be as	signed	
		U.S	. PATENT DOCUMENTS	•			
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
			1				
			1	-	, e		
:							
		FORE	IGN PATENT DOCUMENTS				
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	WO 96/34568 A	11/7/96	PCT	A61B	17/36		
·			***************************************				
<del>, , , , , , , , , , , , , , , , , , , </del>						1	
***************************************							
,	OTHER DO	CUMENTS (I	ncluding Author, Title, Date, Pe	rtinent Pag	es, Etc.)	<del>* **</del>	
			<del>a de la Calenda de la Calenda</del>				
						· ·	
				<del>.</del>	3		
EXAMINER		e e e e e e e e e e e e e e e e e e e	DATE CONSIDERED				

SHEET 15 OF 18

INFORM	IATION DISCLOS CITATION	URE	ATTY. DOCKET NO.		SERIAL NO.	,
	PTO-1449		APPLICANT Sharkey et al.			
*			FILING DATE		GROUP To be as	signed
		U.S	6. PATENT DOCUMENTS	·		
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4,074,718	2/21/78	Morrison, Jr.	128	303.14	
	5,085,659	2/04/92	Rydell	606	47	
	5,437,661	8/01/95	Rieser	606	15	
	5,464,023	11/07/95	Viera	128	772	
		FORE	IGN PATENT DOCUMENTS		·	
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	2 645 008	3/28/89	France	A61B	17/32	
	WO 93/16648	9/02/93	PCT	A61B	17/32	
	WO 95/25471	9/28/95	PCT	A61B	17/39	
· · · · · · · · · · · · · · · · · · ·	WO 95/30377	11/16/95	PCT	A61B	17/39	
	WO 95/34259	12/21/95	PCT	A61F	5/48	
	WO 96/11638	4/25/96	PCT	A61B	17/32	1
	WO 96/32051	10/17/96	PCT	A61B	1/00	
	WO 96/34571	11/07/96	PCT	A61B	17/39	
	OTHER DO	CUMENTS (I	ncluding Author, Title, Date, Pe	rtinent Pag	es, Etc.)	
	Trimedyne, The	Less Invasive L	aser Advantage, Omni Spinal Intr	oduction Sy	stem	*
	PRNewswire ( D Technology	ec. 12, 1994), 7	Two Physicians Perform First Outp	oatient Cervi	cal Disc Procedu	are Using Las
•	Introduction to the	ne LDD Disc K	it, Oct. 16, 1996			
	Mayer et al., Las (1993) pp. 38-44		eous Disc Surgery: Beneficial Tec	hnology or (	Gimmick?, Vol. 2	25 No.251
	Schatz et al., Pre Sciatica, Vol. 38		ience With Percutaneous Laser Di 95, pp. 432-436	sc Decompro	ession in the Tre	atment of
•	Savitz M. A., Sa Discectomy, Vo		urgical Arthroscopic lateral-appro pp. 1039-1045	ach Laser-as	sisted (SMALL)	Fluoroscopic
	Bosacco et al., F	unctional Resul	ts of Percutaneous Laser Discecto	my, Dec. 19	96, pp. 825-828	
EXAMINER			DATE CONSIDERED	. ·		

INFORM	MATION DISCLOS	URE	ATTY. DOCKET NO.	SERIAL NO.						
	PTO-1449		APPLICANT Sharkey et al.							
			FILING DATE		GROUP To be a	ssigned				
1	,	U.S	S. PATENT DOCUMENTS			•				
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS FILING DATE					
· 1.										
FOREIGN PATENT DOCUMENTS										
EXAMINER'S INITIALS	PATENT NO.	DATE	TE COUNTRY CLASS SUBCLASS TRAIN YES							
	OTHER DO	CUMENTS (I	ncluding Author, Title, Date, Po	ertinent Page	es, Etc.)					
1	Sluijter M.E., The Use of Radiofrequency lesions For Pain Relief in Failed Back Patients, Vol. 10 No. 1 (1988)									
	Cosman et al., Theoretical Aspects of Radiofrequency lesions in the Dorsal Root Entry Zone, Vol. 15 No. 6 (1984) pp. 945-950									
· · · · · · · · · · · · · · · · · · ·	Wilkins et al., Ne	Wilkins et al., Neurosurgery: Method of Making Nervous System Lesions, ch. 337, pp. 2490-2499								
	Yonezawa et al., (1990) pp. 1175-1		d Procedure of percutaneous Intra	idiscal Laser	Nucleotomy, Vo	l. 15 No.5				
	Kolarik et al., Pho	otonucleolysis (	of Intervertebral Disc and it's Her	niation, (199	0)					
			SERY AND MEDICINE: Holmit Evaluation, Vol. 12, (1991) pp. 8		er Ablation of H	uman				
			GERY AND MEDICINE: Fluore l. 11, (1991) pp. 280-286	escence Guide	ed Excimer Lase	r Ablation of				
	Choy et al., Percu 949-956	itaneous Laser	Disc Decompression: A New The	erapeutic Moo	dality, Vol.17 No	o. 8, (1992) pp.				
	Sluijter et al., Per 3, (1981) pp.141-		odern Methods of Treatment: Tre	atment of Ch	nronic Back and r	neck Pain, Vol.				
	Sluijter, INT DIS 10, Sept. 4, 1996,		S: The use of Radio Frequency L	esions For P	ain Relief in Fail	ed Back, Vol.				
	Shatz et al., CJS J of Sciatica, Vol. 3		y Experience With Percutaneous 995 pp. 432-436	Laser Disc D	ecompression in	the Treatment				
	Gerber et al., DEI	R ORTHOPAL	E: Offene Laserchirurgie am Bev	wegungsappa	rat, Vol. 25, (199	96) pp. 56-63				
	Gehring W. J., Ex	oploring the Ho	meobox, (1993), pp. 215-221			· · · · · · · · · · · · · · · · · · ·				
	Kelly L.E., Purifi	cation and Prop	perties of a 23kDa Ca2+-binding	Protein, (199	00) 271, pp. 661-	666				
	Sluyter, Radiofre	quency Lesions	in the Treatment of Cervical Pa	n Syndromes	s, Radionics, Inc.	(1989)				
EXAMINER			DATE CONSIDERED							

INFORM	IATION DISCLOS CITATION	SURE : (	ATTY. DOCKET NO.		SERIAL NO.				
*	PTO-1449		APPLICANT Sharkey et al.		1				
			FILING DATE		GROUP To be assigned				
		U.S	S. PATENT DOCUMENTS			<i>4</i>			
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE			
		1.1							
		FORE	IGN PATENT DOCUMENTS						
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO			
	,			<u>.</u>	1	1			
	OTHER DO	CUMENTS (I	ncluding Author, Title, Date, Pe	rtinent Pag	es, Etc.)	l			
			GERY AND MEDICINE:Erb:YA cs, Vol. 12 No. 4, (1992) pp. 375-		YAG Laser Abla	tion of			
#+ <del>+</del>	Leu et al., DER ORTHOPADE: Endoskopie der Wirbelsaule: Minimal-invasive Therapie, Vol. 21, (1992) pp. 267-272								
	Phillips et al., JM May/June 1993	IRI: MR Imagin	g of Ho: YAG Laser Diskectomy	with Histole	ogic Correlation,	Vol. 3 No. 3,			
			DBIOLOGY: Nerve Fibre Dischargon, Vol.3, (1984) pp. 33-40	ges, Cerebra	l Potentials and S	Sensations			
	Kolarik et al., Ph	otonucleolysis (	of Intervertebral Disc and it's Herr	niation, Vol.	51, (1990) pp. 6	9-71			
			es Nucleus Pulposus: Optische Eiglangenbereich von 200 bis 2200n						
	Wolgin et al., Ex	cimer Ablation	of Human Intervertebral Disc at 3	08 Nanome	ters, Vol. 9, (198	9) pp. 124-131			
	Davis, Early exp	erience with La	ser Disc Decompression, Vol. 79	No. 1, (1992	.) j. Florida M.A.	:			
	Quigley et al., La	aser Discectomy	: Comparison of Systems, Vol. 19	No. 3 (199	4) pp. 319-322				
			Chronic back Pain: A Preliminary rtebral Joints, Vol. 34 (1979) pp. 7		e Effect of Radio	frequency			
	Patil et al., Percu	taneous Discect	tomy Using the Electomagnetc Fi	eld Focusing	Probe: A Feasal	oility Study			
	McCulloch et al. January 8, 1977	, CMA JOURN	AL: Percutaneous Radiofrequenc	y Lumbar R	nizolysis (rhizoto	omy), Vol. 116,			
	Yonezawa et al., (1990)	The System an	d Procedure of Percutaneous Intra	idiscal Laser	Nucleotomy, Vo	ol. 15 No. 11			
	Sminia et al., Eff Spinal Cord, Vo		Iz Microwave Hyperthermia appli ) pp. 441-452	ed to the rat	in the region of	the cervical			
	Sluijter et al., Tr	eatment of Chro	onic Back and Neck Pain by Percu	itaneous The	erman Lesions, V	ol. 3 (1981			
EXAMINER			DATE CONSIDERED						

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

		or form 1449A/P7						Complete if 1	Knowh	<u>~</u>
. Buosii	tuto it	31 ioim 1442151 i			Application	n Num	ber			7
INF	OR	MATION I	DISCLO	SURE	Filing Dat	e		, -		$\dashv$
		MENT BY			First Nam		ntor	Hugh R. Sha	nrkey	ᅱ
					Group Art	Unit				
	(us	e as many sheets	as necessary	)		xaminer Name Not Assign		Not Assigne	d	$\dashv$
Sheet	1	l of	4		Attorney I		lumber			$\dashv$
				U.S. PAT	ENT DOCU					$\neg$
Examiner Initials*	Cite No.1		Kind Name of Patentee or of Cited Doc		r Applicant	Date of Publication of Cited Document MM-DD-YYYY		ent	Pages, Columns, Lines, Where Relevant Passages or Relevant	
		Code <sup>2</sup> (if known)							Figures Appear	
	Ä1	164,184	KIDDE	R		08/08/1	875			
	Bl	300,155	STARI	· · · · · · · · · · · · · · · · · · ·	7 T T T T T T T T T T T T T T T T T T T	06/10/1	894			7.
,	C1	371,664	BRAN	NAN et al.		10/18/1	887			
	Dl	452,220	GUNN	NG		05/12/1	891			
	E1	1,314,855	CARPI	NTER		09/02/1	919		<del>na <u>Gara</u>na and Arabana and Arabana</del> and Arabana and	$\neg$
	FI	1,366,756	WAPP	.ER		01/25/1	921			ヿ
	Gl	1,731,627	JOHNS	ON et al.		10/15/1	929			$\Box$
	HI	1,735,271	GROFI	GROFF		12/12/1	/12/1929			
	Il	1,814,791	ENDE	ENDE		07/14/1	07/14/1931			
	Ji	1,908,583	WAPP	WAPPLER		05/09/1	933			
	K1	1,916,722	ENDE			07/04/1	7/04/1933			
	Ll	1,932,258	WAPP	.ER		10/24/1	0/24/1933			
	MI	1,943,543	McFAI	DDEN		01/16/1	934			
	NI	1,983,669	KIMBI	.E		11/11/1	11/11/1934			
	O1	2,002,594	WAPP	ER et al.		05/28/1935				
	Pl	2,004,559	WAPP	ER et al.		06/11/1	935			7
_	Q1	2,050,904	TRICE			08/11/1	/1936			
	R1				**		,,			
	2. 7			FOREIGN	PATENT DO	CUMEN'				
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Docu Office <sup>3</sup> Number <sup>4</sup>	Kind Code <sup>2</sup>		atentee or App Cited Documer		Cited	Publication of Document DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	S1	GB 2,160,102	A	RICHARD V	VOLF GmbH		12/18/19	985		П
	Tl									
	Ųl									·
	Vl									
	Wl									
	X1									
	Yl									
	Z1									
Examiner Signature					Da Co	te nsidere	d			

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English Language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449A/PTO Application Number INFORMATION DISCLOSURE Filing Date STATEMENT BY APPLICANT First Named Inventor Hugh R. Sharkey Group Art Unit (use as many sheets as necessary) **Examiner Name** Not Assigned Attorney Docket Number Sheet 2 of **U.S. PATENT DOCUMENTS** Pages, Columns, Lines, Cite U.S. Patent Document Date of Publication of Examiner Name of Patentee or Applicant Where Relevant No. Cited Document Initials\* of Cited Document Kind Passages or Relevant MM-DD-YYYY Number Code<sup>2</sup> Figures Appear (if known) WAPPLER 10/06/1936 A2 2,056,377 WOLF 12/10/1940 B2 2,224,464 BIERMAN C2 2,275,167 03/03/1942 D2 2,888,928 SEIGER 06/02/1959 E2 3,152,590 ZURDO et al. 10/13/1964 3,163,165 ISAKAWA 12/29/1964 F2 G2 3,460,539 ANHALT, SR. 08/12/1969 H2 PETERSEN 07/27/1971 3,595,239 12 3,768,482 SHAW 10/30/1973 MORRISON, JR. 08/13/1974 12 3,828,780 K2 3,870,047 GONSER 03/11/1975 L2 3,901,242 STORZ 08/26/1975 09/02/1975 3,902,494 HABERLIN M2 3,920,021 HILTEBRANDT 11/18/1975 N2 3,920,022 11/18/1975 02 PASTOR P2 3,938,527 RIOUX et al. 02/17/1976 MORRISON 3,987,795 10/26/1976 Q2 R2 FOREIGN PATENT DOCUMENTS Foreign Patent Document Pages, Columns, Lines, Cite Date of Publication of Examiner Name of Patentee or Applicant Where Relevant Cited Document Initials\* Kind Code? of Cited Document Passages or Relevant MM-DD-YYYY Office3 T6 Number<sup>4</sup> (if known) Figures Appear S2 T2 U2 V2 W2 X2 <u>Y2</u>  $Z_2$ Examiner Date Considered Signature

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known. Substitute for form 1449A/PTO **Application Number** INFORMATION DISCLOSURE Filing Date STATEMENT BY APPLICANT First Named Inventor Hugh R. Sharkey Group Art Unit (use as many sheets as necessary) **Examiner Name** Not Assigned Attorney Docket Number Sheet of U.S. PATENT DOCUMENTS U.S. Patent Document Pages, Columns, Lines, Cite Date of Publication of Examiner Name of Patentee or Applicant Where Relevant Cited Document Initials\* of Cited Document Kind Passages or Relevant Number MM-DD-YYYY Code<sup>2</sup> Figures Appear known) 4,927,420 NEWKIRK et al. 05/22/1990 **B**3 5,277,696 HAGEN 01/11/1994 <u>C3</u> 5.281,218 **IMRAN** 01/25/1994 5,643,255 07/01/1997 D3 ORGAN E3 5,786,705 BAKER 07/28/1998 F3 6,135,999 FANTON et al. 10/24/2000 G3 H3 13 J3 K3 L3 M3 N3 O3 P3 Q3 R3 FOREIGN PATENT DOCUMENTS Foreign Patent Document Cite Pages, Columns, Lines, Date of Publication of Examiner Name of Patentee or Applicant No. Cited Document Where Relevant Initials\* Kind Code<sup>2</sup> of Cited Document Passages or Relevant MM-DD-YYYY T6 Office3 Number4 (if known) Figures Appear U W X Υ 7. Date Examiner Signature Considered

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449B/PTO **Application Number** INFORMATION DISCLOSURE Filing Date STATEMENT BY APPLICANT First Named Inventor Hugh R. Sharkey Group Art Unit (use as many sheets as necessary) Not Assigned Examiner Name Sheet Attorney Docket Number

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	-2
	A4	LEE BEADLING, Bi-Polar electrosurgical devices: Sculpting the future of arthroscopy, ORTHOPEDICS TODAY, January 1997, Vol. 17, No. 1, SLACK, Inc., Medical Publisher.	
	B4		
	C4		.
	D4		
	E4		-
	F4		
1	G4		
	H4		-
	14		-
	J4		
	K4		

Examiner	Date		
Signature	Considered		

Burden Hour. Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

8086 1449B.FRM (1/01)

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English Language Translation is attached.